About This Issue

Nowhere has the impact and success of entrepreneurial activity been more dramatic than in the computer and information technology areas. The cover features included in this issue describe a university model for technology development, a program that encourages student engagement in entrepreneurial activities, a model for educating the engineering entrepreneur of the future, and a concept that encourages business innovation.

Perspectives

22 Arching over the Mobile Computing Chasm: Platforms and Runtimes
Sasu Tarkoma and Eemil Lagerspetz
Platforms, runtimes, and middleware play a vital role in an evolving mobile computing environment in which the trend is toward converged communication, where Web resources integrate seamlessly with mobile systems.

Cover Features

30 Technology Development as an Alternative to Traditional Technology Transfer Models
Steven A. Fontana
By implementing a dynamic, iterative development process, technology transfer offices can earn additional value and recognition for their institution, bring commercially viable and valuable technologies to the marketplace, support local economic development, and earn funding to support future projects.

38 Engineering and Innovation: An Immersive Start-up Experience
Thomas K. Miller III, Stephen J. Walsh, Seth Hollar, Elaine C. Rideout, and Beryl C. Pittman
Since 1993, the Engineering Entrepreneurs Program has been helping engineering students become entrepreneurs. What began as informal student meetings has grown to a three-course sequence with graduates who have pioneered successful companies. Assessments show a positive correlation between program participation and entrepreneurial action.

48 Cultivating Entrepreneurial Thinking through IEEE-CS Student Chapters
Ann Q. Gates, Rodrigo Romero, Miguel Alonso Jr., Fanny Klett, J. Fernando Naveda, and Dina Requena
A proposed IEEE Computer Society student chapter model is designed to immerse students in activities that expose them to entrepreneurial thinking, with guidance from faculty and community members who are entrepreneurs.

56 Entrepreneurial Innovation at Google
Alberto Savoia and Patrick Copeland
To fully realize its innovation potential, Google encourages all of its employees to think and act like entrepreneurs.

Research Feature

62 Comodeling: From Requirements to an Integrated Software/Hardware Model
Toby Myers, R. Geoff Dromey, and Peter Fritzson
Comodeling lets developers systematically investigate and compare different software and hardware partitions to meet a system’s constraints earlier in the design process, when integration problems are easier and cheaper to resolve.

For more information on computing topics, visit the Computer Society Digital Library at www.computer.org/csdl.
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and Erin Dian Dumbacher

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